COMFORT FOR RAILROAD MEN

FINE QUARTERS OF THE Y. M.

C. A. IN THE PENN. STATION.

Quarter Mile of Recreation Rooms.

Bedrooms and Classrooms Provided

Free The Company Finds It Pays to

Supply Such Things for Employee-

President W. C. Brown of the New York

Central was quoted recently as saying

that the best dollars and cents investment

his corporation had made was the money

it had given to the railroad branches of

the Young Men's Christian Association

Inferentially the late A. J. Cassatt, presi-

dent of the Pennsylvania, held somewhat

the same opinion, for when the Pennsyl-

vania station in New York was projected

he insisted that part of the building be set apart for the V. M. C. A.

This Y. M. C. A. branch, the twenty

seventh to be established along the lines

of the Pennsylvania, will be, with the pos

sible exception of the one in the Pennsyl-

vania station at Washington, the larges

railroad branch in the country. The

rooms were opened on March 9 and within

twenty-four hours 200 men and boys had

paid their fees and become members

Three hundred or so more employees are

Membership is restricted to the em-

ployees of the Pennsylvania, the Long

Island Railroad and the Pullman Car

Company to the train crews who be-

ween the hours of their flitting in and out

of the city welcome a chance for recrea-

thinking of joining.

## In the Fourth Dimension

SAINT PAUL AND MILTON SET FORTH IN GRAPHIC ALGEBRA

Phillips, head of the mathematical see the shadows. mouthing statement of some considera- actually before them?" in different dimensional spaces. ourth dimensional space.

For thirty-five years Prof. Phillips of a paseing shadow?'

"No question.' he replied has been a teacher at Yale and he introduced on an extensive scale the study of mathematics by the aid of graphic would be to them just nothing but the curves and models. Not only in the ele- shadows of images." mentary courses in his department but by more complex models he has made plain sider, if one of the prisoners is liberated to the comprehension of the less advanced and is compelled to see the true light higher mathematics. Ever since he was to see the objects themselves of which a lad he has been delving into mathematics he had seen the shadows, how he would be and he has spent years in evolving new dazzled and confounded by the sight models with which to present his ideas

following statement:

found in the study of shadows, whether was no third dimension in his experience. they be of the familiar objects with which of the hills or mountains or in the case of the mirage. In the Republic of Plato "But to bring this down to mathematical" the spiritual world:

unenlightened. Behold! human beings space, but only to get lines. living in an underground den which has they show their puppets."

statues and figures of animals made of would be triangles or figures of four, the sections of the added slabs. In wood and stone and various materials five or six sides.

After short pause assenting, thus began: High matter thou injoin'st me, O prime of men, which appear over the wall?

and they are strange prisoners Like ourselves.' I replied, 'and they see only their own shadows or the shadows of one another, which the fire throws on the opposite wall of the cave.'

True,' he said. 'how could they see anything but the shadows if they were never allowed to move their heads?"

And of the objects which are being

NEW HAVEN, March 24. Prof. Andrew carried in like manner they would only

partment at Yale and dean of the "Yes,' he said, and if they were able aduate school, at a meeting of the Yale to talk with one another, would they not Mathematical Club last week presented suppose that they were naming what was

"And suppose further that the prison ther with the model of a solid which had an echo which came from the other the projection of a definite figure of side, would they not be sure to fancy that the voice which they heard was that

"Beyond question.' I said. 'the truth

"Piato goes on in the dialogue to con students many of the principles of the and is brought out of the cave and taught

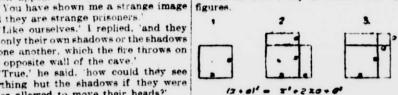
"To take an illustration along the line of the development of this subject in hand. it is said this new model and the in- Suppose an intelligent creature was ferences drawn from it will be interesting confined between two discs and that one not only to mathematicians, but equally of the discs was of glass and curtained to others who are students of trans- so that the inhabitant could not see the condental problems. It is not surprising objects in the world outside but could three corner pieces grow they will com- rhomboldal figure, at, each side the equal to the friends of Prof. Phillips who know understand them only by the shadows plete the Figure 6, and this will be the last his liking for poetry and his familiarity of them cast on the curtain. Suppose term of of the equation. with the Bible to find that his new mathe- the other disc was so arranged that he matical demonstration is an interpretation could draw all sorts of figures. The of a passage from Milton and a text of St. interpretation of his mathematical equations and expressions would involve but Prof. Phillips in explaining his new two dimensions, length and breadth. mathematical demonstration made the He might find imaginary roots of his equations and imaginary expressions There is a wonderful fascination to be which he could not interpret because there

"The one dimensional creature, as an we are surrounded, as cast by the sun, eel in a water pipe, could only interpret the moon or artificial lights, or be pro- one dimensional algebra. It would be duced for practical or scientific or dra- plus x and minus x. We in a three dimatic effects or to teach important les- mensional world may find imaginary sons of life. Especially is the study quantities as when we plot a sphere and exciting when we cannot determine the not be able to interpret them in our space. object which casts the shadow, as when There are many mysteries which we en we attempt to find the clouds which are counter which might be interpreted if projected by the sunlight on the slopes we were four dimensional beings in a

we find a most gruesome allegory involv- form more strictly, let us suppose a one ing shadows, which is narrated by the dimensional creature to inhabit a line philosopher to teach an impressive lesson world. Assume that he is free to move statecraft, and which also may be along his space, the line, and that he can applied to teach a lesson concerning pierce all objects with his line. A circle creature interpret the equation would to him be manifested by chords of And now,' I said. 'let me show in a different lengths, and he could explore figure how far our nature is enlightened shadows and sections of two dimensional any way, but if he is to study the cube each term multiplied by a constant to the most comprehensive and symmetrical account for the obliquity of the projector.

"Suppose next a two dimensional crea- way would be to have his plane pass Thus x3+4x2a+6xa2+4a1 represents the a mouth open toward the light and reaching all along the den; they have been here—plane and suppose the word shadow to Taking away the smaller piece cut off in three dimensional space, of the fourth from their childhood and have their legs mean to him any manifestation in his we have Figure 8. There the original degree figure  $(x+a)^4$ . and necks chained so that they cannot plane, a section of a solid, a projection of cube has been pierced and makes the nove and can only see before them, for a figure, as well as a shadow used in its equilateral triangle in the centre; the three above special terms of the expansion of the chains are arranged in such a manner ordinary sense; suppose him to be familiar slabs have been pierced symmetrically. as to prevent them from turning round with algebraic analysis and manipulation; and the result is the shaded sections. their heads. Above and behind them the that he could move freely in his plane. The three corner pieces added to make assert that the manifestation or shadow light of a fire is blazing at a distance. that ordinary shadows and projects could Figure 6 have been pierced and each is (used in its most general sense) of this four and between the fire and the prisoner be made upon it and that he could pierce a rhombus (see the corners of the section dimensional figure is a solid in three here is a raised way, and you will see, all solid objects with his plane. He could triangle in Figure 8). Now in the section dimensional space. Is it too much to ou look, a low wall built along the not see a sphere, but he could find that its the figure must have been reduced from a conclude that in general the shadows of say like the screen which marionette sections were circles by experiment as solid to a surface. Thus x is projected four dimensional space are the substances players have in front of them, over which well as by analysis. He could not see into x, the degree of the term x being of three dimensional space? The only a cube, but he could understand by ex- diminished by one. Thus the equilateral passage in literature which I can find at periment and analysis that sections made triangle represents in its three sides this time which seems to embody this idea And do you see.' I said, 'men passing by his plane parallel to a side were the property of the elements of length, along the wall, some apparently talking squares, that sections parallel to an edge breadth and height. In the next term. and others silent, carrying vessels and would be rectangles, that oblique sections  $3x^2a$ , the three shaded figures represent

"Let us now study a definite line of one degree in x=3xa, and each one of the Sad task and hard, for how shall I relate



"Assuming a square whose side is x.

tion the square itself is  $x^2$ , and the two substances of two dimensional spaces. additions are 2xa. If then the two additions grow they will complete the square | manifestation of by the addition of a2. (Figure 3.) Again

Assuming a cube whose side is (Figure 4), suppose this cube to grow in or the third term of the right side of the a wide and a thick. term at of the equation.

8 .

 $(r+a)^3 = x^3 + 3x^2a + 3xa^2 + a^3$ 

suppose this square to grow in length account for the obliquity of the projectind pendently of its breadth, making the tion. Since  $a^3$  has no x in it it will not be resulting growth of a rectangle on one projected, and this may be seen from side of length x and breadth a. Suppose Figure 7, since it is not pierced by the the original square also to have grown in cutting plane. A two dimensional creature breadth independent of its length, making might therefore be satisfied with this intera similar rectangle on the top of the pretation of this three dimensional figure square. Figure 2 represents the square and possibly conclude that the shadows of with these two growths, and in the equa- figures in three dimensional spaces are the "We may at this point consider the

 $(x+a)^2 = x^2 + 2xa + a^2$ 

to a one dimensional creature: Here the term x2 would project to x and 2xa to 2a. and the one dimensional creature might pierce the square from the northwest corner to the southeast in Figure 3. where the middle section of the line would represent x, and the other two sections

"Let us now consider the fourth dimensional figure:

A 1 (7 - a) - x + 4x3a + 6x2a7 + 4xa3 4 a4 "Following the method of the projeclength independent of breadth and height. tion of the cube,  $x^i$  would be projected as making the resulting slab whose sides are  $x^i$  in our space. The projection should be x long and x wide and a thick. Suppose a four sided figure, the same as the profurther that the cube grows in breadth jection of  $x^i$  was a three sided figure, the same as it grows in length, we have a Figure 9 is such a four sided figure, a similar slab added to the front of the cube. regular tetrahedron. The fourth dimen-Again, if the cube grows in height as it has sional figure should grow in four direcgrown in length and breadth a similar tions. Hence each side of its projection slab is added to the top. The result of (Figure 9) should grow a slab represented these additions is Figure 5, and the total by xa. It will be seen that each slab of these additions gives 3x a, the second of Figure 10 satisfies this expression in term on the right hand side of the above projection. F representing the surface of equation. Suppose again that these the side and a the thickness. Again three slabs grow so as to fill in the corners. if these four slabs grow in projection Each of these growths will be x long and there will result (see Figure 11) the six a wide and a thick, the total being  $3xa^{2}$ , corner pieces each represented by x long, The projection of equation. (See Figure 6.) If now these  $4+a^3$  would be each represented by a stood that the term at is left out of the pro-

7

of the projection of the three dimensional

cube. We have therefore the expression

"The several manifestations in the

(x+a)4 open up a wide field for specu-

lation. We may, however, confidently

is in 'Paradise Lost,' Book V., line 561;

Thus Adam made request, and Raphael

"How would our two dimensional jection for the reason that a was left out

"His plane might pierce the cube in in projection reduced one degree, and

shaded border strips stands for xa. Again. To human sense th' invisible exploits the rhombuses at the corner are the pro-Of warring spirits; how without remorse

Thus the section or shadow of the The secrets of another world perhaps

should be multiplied by a constant to By lik'ning spiritual to corporal forms,

jection x drops one degree and the term And perfet while they stood; how last

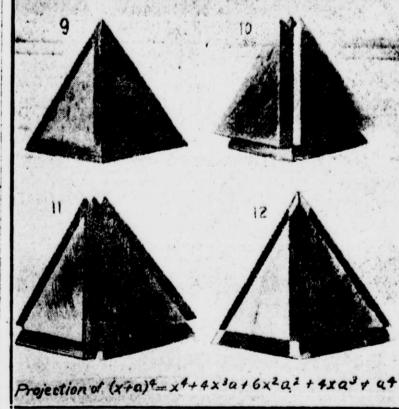
three dimensional figure is a representation

Not lawful to reveal? Yet for thy good

This is dispensed; and what surmounts

jection of the term 3xa2, and in the pro- The ruin of so many glorious once

degree, or x2+3xa+3a2, each term of which of human sense I shall delineate so

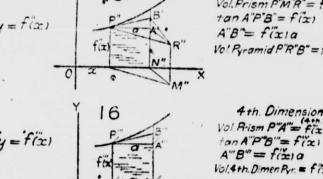


thought

used and have presented to many of you that the curve, the tangent of A"P"B" theorum in the differential calculus. If 18, are all as if laid down on a ground pullding is a mere shell covering magnificent distances that leave no room y=f''(x), y=f''(x), it will be seen from glass window. "We do not know the shape of the four for quarters so ample as those of the indefinitely. We see that in 13 f'(x) is known."

As may express them best—though what if the tangent of APB, while it is the ordinate tion, of study, or a shower bath, maybe, of the curve in Figure 14, and so on for the or of forty or eighty winks of sleep in a Be but the shadow of heaven and things series, and that in two dimensional space real bed far removed from the thud of (triangles) we multiply the base by half wheels over frogs and rail joints. the height, in three dimensional space This newest home of the Y. M. C. A the base by one-third the height and in spreads over more than 22,000 square feet four dimensional space the base (which is "Another method of manifesting the a three dimensional solid) by one-fourth services a three dimensional solid) by one-fourth services at the building and the height, for the volumes of the respective services \$150,000 on this part of the building and between \$20,000 and \$30,000 on equipment. has not been published, but which I have tive pyramids. It may also be observed as a process for interpreting Taylor's the lines A'''P'''=a, and F'''(x) in figure | end of the station it may seem that the

Figures 13 and 14 that the same expres-dimensional prism and pyramid behind sion which gives a line AB in 13 gives the the window in this figure beyond this surface of a rectangle in Figure 14; that plane. We may, however, apply St. the expression which gives the triangle Paul's words. First Corinthians, xiii. in 14 gives the prism in 15 and what gives 12, to this fourth dimensional figure: architect has tricked him with an illusion. the pyramid in 15 gives the four dimen- For now we see through a glass darkly sional prism of 16. This might be con- but then face to face. Now I know in side and around the corners, paralleling tinued to fifth and higher dimensions part, but then I shall know even as I am Thirty-first and Thirty-third streets, is tan APB = f(x) AB = f(x)a. Area rectangle P'N'= fixio ton A'P'B' = fixi A'B' = fixia Area triangle APB = f(x) Vol. Prism P'M'R" = fix 1 3 tan A'P'B' = fix) A''B''=f(x)a



## Vol Pyramid P'R"B" = fix a 4th. Dimension Vol. R-ism P"A" = f(x) 23 tan A"P"B" = f(x) Vol.4th. Dimen Pyr. = fix

## The Bomb That Miscarried

Adventure of the Subway Guard Who Posed as a Grand Duke.

nterie, approached the lieutenant few belongings: at the desk who was busy entering assignments, and said:

I would not greatly care did he not it for use within a few days we me \$3. last week's rent. He is a subay guard and it ought not to be difficult find him. His disappearance was atedroom on the second floor and partly covered it was torn. deed every one of my select and se-

jumping clear of the floor twice, Grand Central next!! and a scurry apparently on the fire escape. being just awake there was osting these extraordinary sounds. your boarder. When he fled from his agth, ten minutes later, attired mud from the street." I knocked on the subway

unt bowed and Mrs. Plyppe Central Office to mediately

street station were surprised on Saturday by a visit from Mrs. Amelia Flyppe, who which the subway guard had so hastily seeps a boarding house in West Forty- quit. The landlady could not refrain firmly.

had always had the alarm clock on the the corner. The young man in my hall bedroom on dresser. Mrs. Flyppe said that she did the third has dropped clean out of sight. not know. She did not recall having seen

"Ah, no." dissented the detective, "for it is an old battered alarm clock."

"Well, like as not he got it at a second ended by several circumstances indica- hand store," said Mrs. Flyppe, sniffing ive of actual violence as well as mere three times quite loud as the detective deness, which in his case would of whipped out a microscope and began signify nothing. I shouldn't won- studying the fire escape, which had evihe had met with foul play. At 7:00 dently been used lately, as three milk

There is little to be learned here," boarders was awakened by a loud said the Central Office man after a proplain though from the position of the et came two lesser thumps, as if a rips and tears in the vine that two persons have been up and down here one man came up and went down and then another, the guard, of course, went down—— Ah!" he pointed to a bit of dried mud on a step of the fire escape, "that was not left by room he did not have on his feet fresh

"Well, I don't know," observed Mrs. There was no answer. Flyppe, "he was always very careless ted knocks I or ened it. The about wiping his feet when he came in empty and in some disorder. I used to go to the door when I heard ed out of fied and disapthim coming and call out. Watch your I noticed nothing strange about step!' and then he'd be apt to glance at his feet and think to wipe them."

The detective was peering at some he local detectives at once books on the shelf in the room.

of the expression, each term reduced one

pages of the latter book. Suddenly they and he gave a low whistle. "What lovely luck!" he mu

Le Grand-duc Dmitri-Pavlovitch, né Hinskoie pres de Moscou 6 Septembre 1891 of his crime, but in this case the innocent Dmitri Pavlovitch will be 20 years old this He is a bored young man with highly reactionary tastes, though not an officer of the Preobrajenski guard-

The detective gave a little, glad cry. "There we have it!" he exclaimed. The police of the West Forty-seventh to Mrs. Flyppe's house and made a careful Preobrajenski guard?" he demanded, treet station were surprised on Saturday survey of the third floor hall bedroom turning to Mrs. Flyppe.

"Only the subway," replied the landlady minth street. Mrs. Flyppe, wearing a from sniffs indicative of her feelings as green percale bonnet trimmed with passes she saw him poke over her lost boarder's commanded. "And call a small boy with

a red tasselled nightcap and a blue sweater The detective asked her if the guard whom you will see standing whistling on about him. Mrs. Flyppe, pausing only to sniff a

little of her disdain, obeyed him. Seizing He disappeared at 7:09 o'clock this morn- it before, but probably he had purchased the paper from her hands the detective turned to the inner pages and scanned them closely. He found what he wanted and read aloud:

> for drunkenness after an anarchist's meeting in Carmine street. In the night court izing them.' he was fined \$3.

he had met with foul play. At 7:00 dentity been used lately, as three inits, nightcap by its red tassel. "You will the retired farmer. "Won't never take vitch Dolguruky.

The boy saluted and with a Cossack yell more. near the third floor, directly over the longed study with his glass. "It seems far away. The detective turned to the back fire escape here with the bomb?" window and parting the lace curtains queried the Central Office man watched the street. Mrs. Flyppe stood, her hands on her hips, beside him. As ye?" quavered the old man. "Ain't he watched the streat with an abstracted a-going to consarn me with it, be ye?" air the Central Office man said, as if talking to himself:

There are no crimes so simple to trace, so difficult to prove as those of the group, crimes where more than two persons participate. Most of them are trans- he confessed at last. parent to one who has made the slightest study of them, but when they are succonsfully executed it is the most difficult eagerly. "But how's it happen they ain't word 'guard' and even after he appeared thing in the world rightly to trace every no damage done here?" man's part in them.

"On the other hand, just because there are so many participants, they seldom out the window. succeed in the execution. This one did

A moment later the doorbell rang and to your boarder, who was more of a Grand not. It would perhaps have succeeded if Mrs. Flyppe ushered into the parlor the Duke as the meeting progressed and the participants had kept sober, but they required the fleutenant energy of the fleutenant energy of the fleutenant energy of the sparticipants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober, but they amail Russian boy and a tall, wonderfully handsome man with the dead white aking the participants had kept sober and the participants had kept sober had been accounted in the participants had kept sober had been accounted to the participants had kept sober had been accounted to

Gotha' and this very authoritative work Arturo Alfredo Ivanovitch Dolguruky." slowly in French that a Parisian would the fire escape, place the bomb in your on the Russian Grand Dukes."

replied the detective with a glance at have understood and a native the fingers were racing through the her. His eye strayed to the street outside Petersburg would have envied. replied the detective with a glance at have understood and a native of St. boarder's room and come down again. "But what has become of him?" asked

"What lovely luck!" he muttered. "Not Flinders in English, not caring to exhibit it for 7 o'clock in the morning." only does the criminal return to the scene his French alongside of the other's. bystander finds himself too fascinated to stay away. We will now interview Grandpa "Just plumb scared, eh?" commented danger from it anyway."

Deexions, late of Dutchess county, who the detective. "Well. I don't wonder "Precisely." assented sold his farm and came to New York to Hereafter he will be just a subway guard Dolguruky rejoined the unsteady enemies live an artless if premeditated life in a all the time, I fancy. And that'll be of order in your back yard, Mrs. Flyppe, hall bedroom just like this on an income more honest than posing as a member of and they all went home, where they much of \$1,000.50 a year from Government that modern Prætorian Guard of Russia, needed to go; all, that is, except the fellow bonds.

A minute later Flinders had ushered plete and I am ready to explain it to you court. the grim looking old fellow who had been from beginning to end. The others here! "What happened then? At nine minstaring at the boarding house into Mrs. can supplement my synthetic narrative utes after 7 o'clock the alarm went off Flyppe's Parlor. Grandpa Deexions stood rather stiffly before the Central Office man, his foliated false beard quivering slightly, the only sign of nervousness fellow of Russian parentage, though his he was getting the bell cord and cried out.

"Now, Grandpa," said Flinders easily, "pray don't be alarmed. Of course when you went to the meeting of the Commune last night you didn't know that with that beard you'd be mistaken for Czsky, the control of the course when the course when last night you'd be mistaken for Czsky, the control of the course when last night you'd be mistaken for Czsky, the control of the course when last night you'd be mistaken for Czsky, the control of the course when last night you'd be mistaken for Czsky, the control of the course when last night you'd be mistaken for Czsky, the control of the course when last night you'd be mistaken for Czsky, the control of the course when last night you'd be mistaken for Czsky, the control of the course when last night you'd be mistaken for Czsky, the control of the course when last night you'd be mistaken for Czsky, the control of the course when last night you'd be mistaken for Czsky, the control of the course when last night you'd be mistaken for Czsky, the control of the course when last night you'd be mistaken for Czsky, the control of the course when last night you didn't know that with that last night you didn't know that last night you didn't last night you'd be mistaken for Czsky, the
Russian nihilist. I hope they didn't bother
you too much. Any one else would have
given himself away, but I know you
didn't spoil their delight by disillusionizing them."

"No, no. Came purty near it. Hadn't
"Bespecially the Grenadiers de
been they all got drunk don't know's I
been they all got drunk don't know's I
been they ou'd be mistaken for Czsky, the
lage.

"It was a crude sort of deception,
but it worked among his friends. He
read all he could find about the Russian
grand dukes. As Dmitri Pavlovitch
he referred to the Palace Hinskoie near
dust to bed. Instantly he thought of
the threatening letters. This was the
bomb! He fled down the fire escape
without much on and really I doubt if
he comes back."

At that instant the door bell rang and
to be beard of Grandpa Deexious shook
strangely. A moment later a servant
beard of the when he
is neighbor is a marble lined chamber
in which are nine shower baths and 200
the threatening letters. This was the
bomb! He fled down the fire escape
without much on and really I doubt if
he comes back."

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beard of Grandpa Deexious shook
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Its neighbor is a marble lined chamber
in which are nine shower baths and 200
the threatening letters.

Its neighbor is a marble lined chamber
in which are nine shower baths and 200
the threatening letters.

Its neighbor is a marble lined chamber
in which are nine shower between th nd read aloud:
The police last night arrested one man given himself away, but I know you drunkenness after an anarchist's meet-

"Vladimir," said Flinders to the small been they all got drunk don't know's I boy who stood before him twirling his could 'a' kep' it up and out'n it." replied find a man named Arturo Affredo Ivano- no sich resk agin. Just thought as I'd like t' see an anarchy meeting. Won't no of him under his aristocratic if ridiculous

"Who was the man who went up the

"Ain't a-going to mix me up in it.

were only the innocent bystander. Grandpa Deexions hesitated. "Can't begin to remember his name,

said the detective, who had been looking

"Can't begin to remember his name." he confessed at last.
"Was it Dolguruky?" asked Flinders
"That were it," assented the old fellow sagerly. "But how's it happen they ain't not damage done here?"
"You'll learn that in about ten minutes." said the detective, who had been looking out the window.

A moment later the doorbell rang and Mrs. Flyppe ushered into the parlor the small Russian boy and a tall, wonderfully handsome man with the dead white akis of a Russian of the higher class and the of Piedmont. This man smiled slightly as he saw the detective, bowed with a fine grace and commenced to speak"

"Some of the Anarchists got only the fine grace and commenced to speak"

"Last night the Commune held a meeting progressed and bowed with a fine grace and commenced to speak"

"Last night the Commune held a meeting progressed and only as a subway guard they clung to their early view.

"Last night the Commune held a meeting. It was decided to deliver a bomb to your boarder, who was more of a Grand Duke as the meeting progressed and of Russian of the higher class and the brown, gold streaked hair of an Italian of Piedmont. This man smiled slightly as he saw the detective, bowed with a fine grace and commenced to speak"

"Some of the anarchists got only the work of guard and even after he appeared on the work of guard and even after he appeared on the work of guard and even after he appeared to deliver a bomb to your boarder, who was more of a Grand Duke as the meeting progressed and did how there is my country and was silenced with 1.000 Russian 4 per cent. Gold bonds. Oid fellow, where is my country at all the worked the angle and Ohio road from the worked fine and became an operator of the Chesapeake and Ohio road from the worked for the Baltimore and Ohio read the worked the worked for the Chesapeake and Ohio road from the worked for the Chesapeake and Ohio road from the worked for the Chesapeake and Ohio road from the worked for the Chesapeake and Ohio road from the worked for the Chesapeake and Ohio road from the On, pardon me. I was taking to my the greatest hallotted in the self," the detective said apologetically, and one of the most interesting men in all New York had not taken a hand in it."

This man smiled slightly as he saw the detective, bowed with a left under them proceeded with him to your back yard and watched him climb

Arturo Alfredo Ivanovitch Dolguruky laughed a short reply

"Just plumb scared, eh?" commented the detective. "Well. I don't wonder Hereafter he will be just a subway guard all the time, I fancy. And that'll be more honest than posing as a member of that modern Prætorian Guard of Russia, the Preobrajenski. The case is now complete and I am ready to explain it to you from beginning to end. The others here can supplement my synthetic narrative with any interesting detaits I overlook.

"Your boarder, the subway guard, was a young man of 20, a handsome twice to the ceiling under the impression ber may play pool at sixteencents an hear and billiards at 30, about half what is would pay elsewhere. There are itso inlaid tables for checkers or chess and they all went home, where they much meded to go; all, that is, except the fellow who was arrested and fined \$3 in night court.

"What happened then? At nine mindon with a vim. It awakened your subway guard. We rolled out of bed, jumped twice to the ceiling under the impression partition, through which the waiting the read of the pay on any play pool at sixteencents an hear and billiards at 30, about half what is would pay elsewhere. There are itso inlaid tables for checkers or chess and there is the old reliable shouldeless for checkers or chess and there is the old reliable should tables for checkers or chess and there is the old reliable should tables for checkers or chess and there is the old reliable should tables for checkers or chess and there is the old reliable should tables for checkers or chess and there is the old reliable should tables for checkers or chess and there is the old reliable should tables for checkers or chess and there is the old reliable should tables for checkers or chess and there is the old reliable should tables for checkers or chess and there is the old reliable should tables for checkers or chess and there is the old reliable should tables for checkers or chess and there is the old reliable should tables for checkers or chess and there is the old reliable should tables for checkers or chess and the

was a young man of 20, a handsome twice to the ceiling under the impression father was but a mujik or peasant. He 'Grand Central next,' before he was fully went with a set of fellows of his own awake.

Fanagorie, with which he was connected, ushered into the parlor a young man in

credulous of human beings they determined to blow him up. They sent him several threatening letters, which frightened the wits out of him "He ceased to announce himself as a like ouick answer. "Where is he? Ohe:"

"A cousin of the man who lived here, spiritual, physical, mental and social, and that the specific aim of the railroad was to develop all four sides of a man, spiritual, physical, mental and social, and that the specific aim of the railroad and to the ouick answer. "Where is he? Ohe:" ened the wits out of him
ened the wits out of him
"He ceased to announce himself as a
He gazed intently at Grandpa Decvious a-going to consarn me with it, be ye?"

"No-no, no-no," the detective reassured him. "I knew long ago you
had boasted himself before to be an officer."

"Be gazed intently at Grandpa Deexions and with a bound had reached him and lar.

"This can had boasted himself before to be an officer of the very exclusive Preobrajenski Guard in St. Petersburg. Now the Grand Duke Dmitri Paylovitch is not an officer identity and was silenced with 1,000 Russian 4 per cent. gold bonds. Oid fellow, where is my cousin?"

snatched off the oid man's beard. "This is the cannot pass at home. The railroad feels is the old fellow whom he told to step lively and who took his number, looked degree. Hence its cheerful contribution of such a home as this identity and was silenced with 1,000 Russian 4 per cent. gold bonds. Oid fellow, where is my cousin?"

The railroad spent between \$140,000 and To the visitor scanning the great arched concourse at the Eighth avenue

for quarters so ample as those of the railroad Y. M. C. A. But if he will take the elevator near the Eighth avenue entrance and ascend to the top floor. the fourth, he will discover that the On this floor all along Eighth avenue a strip some thirty some feet wide and nearly a quarter of a mile long that is the Y. M. C. A.'s peculiar domicile.

The visitor steps from the elevator

and finds himself in a reception room suggesting a men's club. Easy chairs and couches promise comfort. Windows, wide and tall, admit a flood of afternoon sunlight and permit one to survey the beginnings of the new post office, the Hudson River and the New Jersey shore. On the Thirty-first street side of the station, so high above the concourse that no sounds of the trains or shuffling crowds reach the sleepers, is the dormitory. There are 200 rooms, with from four to eight beds in a room. The official name for the beds is bunks, for they are not intended for steady lodgers. They are for trainmen, messengers, Pullman conductors and others who find themselves in New York between trips who need sleep and who at a hotel would

have to pay dearly for it. In the Y. M. C. A. a bed costs a member 10 cents a night or for such time as he occupies it at one stretch and a nonmember 25 cents. The sleepers are so distributed that the crows that have to be called out simultaneously, at midnight, say, are in the same section of the dormitory and can slip away to their trains without waking the others.

From the dormitory the reporter was ushered through a hall seating 350 persons into two classrooms where serious work of the Y. M. C. A. is to be done. The curriculum is not definitely plotted yet, but it is expected that there will be classes in English, business practice and machine drawing with lectures on airbrake construction and other railroad topics by officials of the read and others who can supply information that may help who can supply information that may help the ambitious trainman to a better job. The next room visited was the library,

The next room visited was the library, whose shelves are to be filled with 1,500 books, including novels and works on railroad subjects. Adjoining it is a reading room 32 by 34 feet. On its tables are popular and technical magazines. Through its windows may be glimpsed that same bit of the river and the New Jersey heights that was observed from the reception, room. On the walls hang'enlarged photographs of scenes along the lines of the Pennsylvania.

"In making the bomb," interrupted Dolguruky, "I had taken pains to leave out the explosive so that there was no is called the games room. There a men-

out the explosive so that there was no is called the games room. There a mendanger from it anyway."

partition through which the walti-billiard player may watch the balls roll if he cares to, are two bowling alleys of regulation length.

Thence the visitor was taken to the

Fanagorie, with which he was connected ushered into the parlor a young man in ushered into the parlor a young man in ushered into the parlor ayoung man in introduced to General Secretary J. M. Rice, who has come from the State secretary around angrily.

"What's all this?" he demanded, "and of him under his aristocratic if ridiculous disguise, and as anarchists are the most what's become of my cousin?"

"Who are you?"

"Who are you?" was to develop all four sides of a man

le hours of the railroader are irregu-lie has much spare time that he of pass at home. The railroad feels